

Cosmological evolution of the plasma with interparticle scalar interaction. III. Model with attraction of like-charged scalar particles

Ignatyev Y.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

On the basis of the relativistic kinetic theory, a mathematical model of cosmological plasmas with attraction of like-charged scalar particles is formulated. It is demonstrated that the cosmological model, based on a classical scalar field with attraction, is unsatisfactory, which necessitates involvement of phantom scalar field models for systems with attraction. © 2013 Springer Science+Business Media New York.

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